Learning Objectives

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Disclosures

- From 2006-2010, Frank de Vries has worked as a senior epidemiologist for the UK Medicines and Healthcare Products Regulatory Agency. He has been involved in commissioned research for various pharmaceutical companies.

- Some of the research presented in this workshop on 12-13 September 2014 has been conducted as part of the IMI-PROTECT study, which is a public private partnership between various stakeholders including academia, the European Medicines Agency and various pharmaceutical companies.

By the end of this workshop….

What is Pharmacoepidemiology?

…the study of effects of drugs in large groups of people….

Big data

Big questions

Real life data

And......

…patients who are generally not included in Randomised Clinical trials

or

….. who behave differently in real life

`Benzodiazepine use doubles risk of hip fracture´

+ Big data

+ To be conducted in every EU country
+ Appropriate methods
+ Complex stats
+ Deep understanding

  exposure

  bias ….

A 2-day interactive workshop?

Objectives

• to understand study hierarchy, databases, methods and tools of pharmacoepidemiology research

• to apply individually break out sessions on these methods and tools

• to perform literature research, meta-analysis, and combine it with drug utilization data to estimate population attributable risks (PARs)

Objectives

• to understand study methods and tools research

• to apply in these m...

• to r... ...lysis, a... ...a to ...ks (PARs)

Calcif Tissue Int (2012) 91:24–31
DOI 10.1007/s00223-012-9603-8

ORIGINAL RESEARCH

Potential Impact of Benzodiazepine Use on the Rate of Hip Fractures in Five Large European Countries and the United States

T. P. Khong · F. de Vries · J. S. B. Goldenberg · O. H. Klungel · N. J. Robinson · Luisa Ibáñez · R. Petri

Seven steps to a scientific paper

1. General intro
2. Study designs / Critical appraisal papers
3. Classification outcome and exposure
4. Bias and confounding

5. Systmatic Review & Meta-analysis + Lab
6. Drug utilisation data
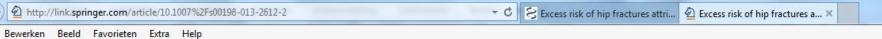7. 5+6 = Population Attributable risk

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european association of hospital pharmacists
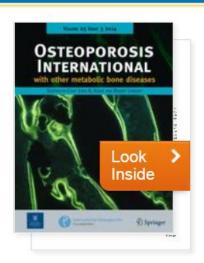
Excess risk of hip fractures attributable to the use of antidepressants in five European countries and the USA

D. Prieto-Alhambra, H. Petri, J. S. B. Goldenberg, T. P. Khong, O. H. Klungel, N. J. Robinson, F. de Vries

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Abstract

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